

# Hydrological Summary for Great Britain

*JUNE 1994*

## Rainfall

June was a month of large regional variations in temperatures, sunshine amounts and rainfall. North-western Britain was mostly dull and cool and a sequence of frontal systems produced above average June rainfall. Some localities in the western Highlands were extremely wet but in parts of eastern and central Scotland the warm, dry conditions which characterised May continued into early June, producing some notable sequences of dry days. Most of southern, central and eastern England remained dry throughout the majority of the month but, locally, convectional storms resulted in a few exceptionally intense downpours, on the 24th especially. For example, 43 mm was recorded in around three hours in the Peak District at Hollingsclough (including a 23 mm burst in 15 minutes, the associated return period is around 100 years) and 41 mm in two hours at Hambleden Lock on the Thames, producing localised flooding. A remarkable fall of 52 mm in 15 minutes at Teviothead (Borders) was also reported. Considerable difficulties attend the measurement of such extreme intensities but, if confirmed, it would be a monumental event. The provisional June rainfall total for England and Wales is the lowest monthly total since August 1991 and the driest June since 1976. The meagre rainfall contributed to significant three-month rainfall deficiencies in parts of northern England and eastern Scotland. Elsewhere, it terminated protracted sequences of wet months in a number of regions: South-West and Wessex registered their first dry month of 1994 and June ended a run of nine successive wet months for the Anglian region. This lengthy wet phase is reflected in the long term rainfall accumulations which remain above, to well above, average in 1994 and in the twelve month timeframe.

## River Flow

Rapidly drying soils reduced the hydrological effectiveness of the June rainfall and in the great majority of catchments recessions were protracted - an interesting feature in northern Scotland was the clearly evident diurnal variation caused by headwater snowmelt. In parts of Scotland, the contrast with late spring flow conditions is marked, but runoff rates have also declined briskly in impervious catchments in southern Britain. By contrast, healthy baseflow contributions maintained above-average flows in many spring-fed rivers in the

English Lowlands where flows have remained significantly above average for extended periods. A number of western Highland catchments registered new maximum June runoff totals; examples include the Rivers Carron and Nevis, and inflows to the Lochaber hydro-power scheme (near Fort William) were the highest, for June, in 50 years. Throughout most of western and northern Britain however, June runoff totals were below average - substantially so in the North-East and the Midlands; nonetheless, average flows remain within the normal range and, typically two or three times the June minima established during the 1989-92 drought. Sustained recessions in Chalk streams have produced the lowest flows since the late summer of 1993 but runoff totals over the intervening months are, mostly, very high - the nine-month accumulations for the Mimmram and Kennet, for example, are unprecedented.

## Groundwater

Many index boreholes exhibited an extreme range of variation over the two or three years up to the spring of 1994 but levels have now generally returned to well within the seasonal range. Regional variations remain notable however. Evaporative losses were high in June and soil moisture deficits increased briskly to exceed the month-end average over wide areas. Correspondingly, infiltration during June was restricted to a few isolated localities and most aquifers experienced substantial water-table declines. Recessions were especially steep in the Yorkshire Chalk where levels fell to just below the June average. Despite recent declines, levels remain notably high in large parts of the eastern Chalk - at the Holt especially. The sustained 1988 recession - which continued until the early winter and is being loosely paralleled in parts of southern Britain - provides a reminder of how the resources outlook can change within the space of six months, but given normal rainfall, the 1989-92 minima will not be approached this year.

## General

The warm, dry conditions triggered heavy water usage, particularly in those regions where demand is greatest and reservoir stocks declined significantly in some areas (northern England particularly). Overall, stocks remain healthy and generally well above those recorded at the same time in 1989 and 1990.



**Institute of  
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**British  
Geological  
Survey**

Data for this report have been provided principally by the regional divisions of the National Rivers Authority\* in England and Wales, the River Purification Boards in Scotland and by the Meteorological Office. Reservoir contents information has been supplied by the Water Services Companies, the NRA or, in Scotland, the Lothians Regional Council. The most recent areal rainfall figures are derived from a restricted network of raingauges and a proportion of the river flow data is of a provisional nature.

A map (Figure 3) is provided to assist in the location of the principal monitoring sites.

Financial support towards the production of the Hydrological Summaries is given by the Department of the Environment and the National Rivers Authority.

The Hydrological Summaries are available on annual subscription at a current cost of £48 per year - enquiries should be directed to the National Water Archive Office at the address below. No charge is made to those organisations providing data for the Summaries.

\* For reasons of consistency and to provide greater spatial discrimination, the original ten regional divisions of the NRA have been retained for use in the Hydrological Summaries.

#### MORECS

Most of the recent monthly regional rainfall data featured in the Hydrological Summaries are MORECS assessments. MORECS is the generic name for The Meteorological Office services involving the calculation of evaporation and soil moisture routinely for Great Britain. Products include a weekly issue of maps and tables of potential and actual evaporation, soil moisture deficits, effective rainfall and the hydrometeorological variables used to calculate them. The data are used to provide values for 40 km squares - or larger areas - and various sets of maps and tables are available according to user requirements. Options include a day-by-day retrospective calculation of soil moisture at any of 4000 rain-gauge sites.

Further information about MORECS services may be obtained from: The Meteorological Office, Sutton House, London Road, Bracknell, RG12 2SY

Tel: 0344 856858

Fax: 0344 854024

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**TABLE 1 1993/94 RAINFALL AS A PERCENTAGE OF THE 1961-90 AVERAGE**

Note: The monthly rainfall figures are the copyright of The Meteorological Office. These data may not be published or passed on to any unauthorised person or organisation.

		Jun 1993	Jul	Aug	Sep	Oct	Nov	Dec	Jan 1994	Feb	Mar	Apr	May	Jun
England and Wales	mm	66	83	55	113	89	74	167	123	82	93	75	61	34
	%	102	134	72	147	105	82	178	140	130	129	125	95	52
<b>NRA REGIONS</b>														
North West	mm	57	109	80	87	51	65	248	145	70	151	151	39	67
	%	70	128	75	76	40	53	200	120	90	159	213	52	82
Northumbria	mm	39	59	77	109	91	63	135	108	70	82	65	24	45
	%	65	91	95	149	120	73	167	129	119	117	116	38	75
Severn-Trent	mm	72	79	43	95	74	67	137	94	71	74	59	52	25
	%	122	149	64	148	116	94	178	134	131	121	107	89	43
Yorkshire	mm	48	68	78	132	62	63	134	117	68	69	61	45	31
	%	80	115	105	194	85	79	161	148	117	101	103	74	52
Anglian	mm	49	69	45	105	90	70	85	73	44	52	52	51	23
	%	96	141	82	214	176	121	155	146	119	111	113	106	45
Thames	mm	57	55	33	103	111	47	104	97	59	49	59	77	25
	%	104	112	57	175	179	72	149	152	131	88	118	138	45
Southern	mm	53	62	37	123	134	63	154	124	63	57	78	88	39
	%	98	129	65	178	168	74	188	155	117	90	147	162	71
Wessex	mm	69	76	36	120	122	63	169	126	99	79	63	88	25
	%	121	146	55	167	154	76	182	145	152	113	119	144	44
South West	mm	108	128	39	168	119	107	264	186	174	124	87	93	32
	%	157	186	46	181	103	86	190	135	172	125	126	129	47
Welsh	mm	99	111	75	118	81	113	259	183	130	177	115	73	56
	%	125	144	74	103	59	80	169	128	134	165	144	89	71
Scotland	mm	72	113	74	76	118	76	234	215	99	249	134	30	100
	%	84	120	63	54	76	50	155	142	97	199	176	35	116
<b>RIVER PURIFICATION BOARDS</b>														
Highland	mm	83	142	89	52	139	68	266	257	84	338	188	29	134
	%	85	134	70	30	70	33	135	137	66	209	207	32	137
North-East	mm	59	79	69	88	171	44	113	132	105	105	77	15	47
	%	89	108	79	101	176	44	122	133	162	135	128	22	71
Tay	mm	58	90	58	100	127	77	157	200	114	229	103	19	78
	%	79	117	62	88	98	64	124	139	120	210	166	23	107
Forth	mm	72	73	50	79	108	73	187	160	88	204	83	16	61
	%	104	97	53	72	94	65	170	136	111	217	141	22	88
Tweed	mm	62	54	52	91	134	55	171	140	86	122	71	18	48
	%	95	74	59	102	141	59	184	140	128	154	125	25	74
Solway	mm	72	101	65	102	54	97	266	197	117	191	120	27	81
	%	86	112	55	71	34	67	180	126	116	163	156	32	96
Clyde	mm	77	137	89	74	67	113	300	269	114	301	148	33	138
	%	83	126	66	41	35	63	168	142	97	205	176	36	148

Note: The monthly rainfall figures for the NRA regions for May and June correspond to the MORECS areal assessments derived by The Meteorological Office. In northern England these initial assessments may have a particularly wide error band associated with them. The figures for the RPB regions for May and June 1994 were derived by IH in collaboration with the RPBs. The provisional figures for England and Wales and for Scotland are derived using a different raingauge network. Regional areal rainfall figures are regularly updated (normally one or two months in arrears) using figures derived from a far denser raingauge network.

**TABLE 2 RAINFALL RETURN PERIOD ESTIMATES**

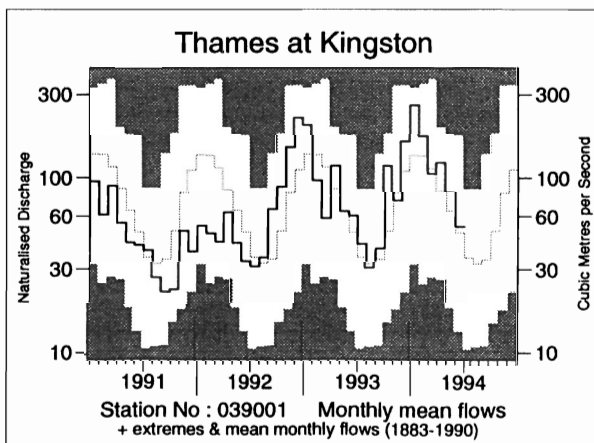
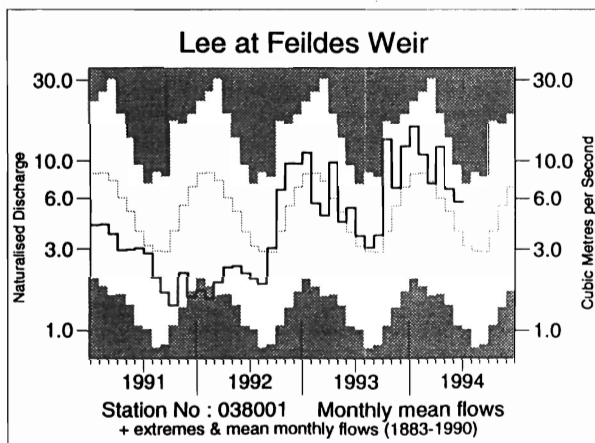
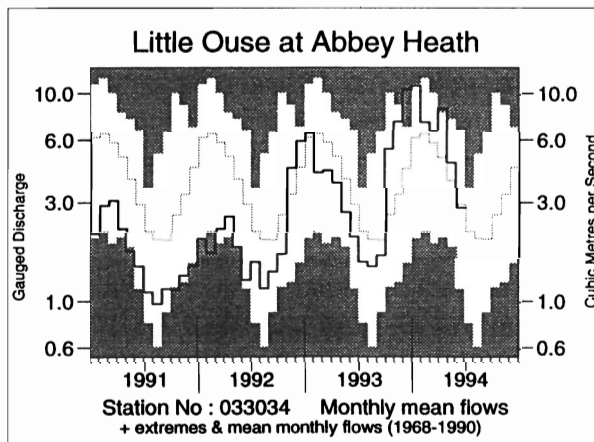
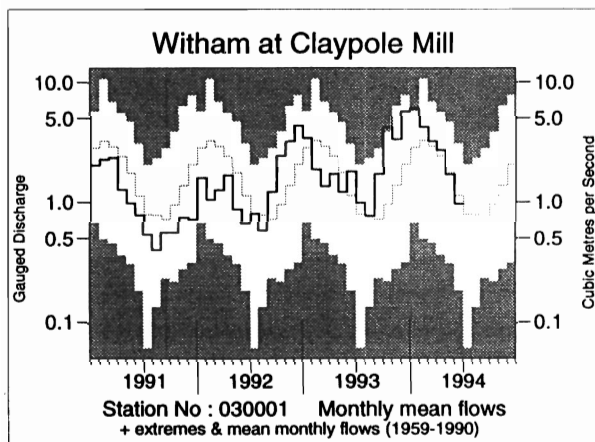
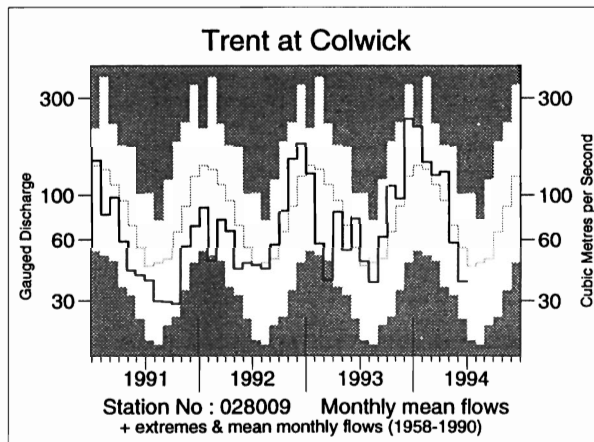
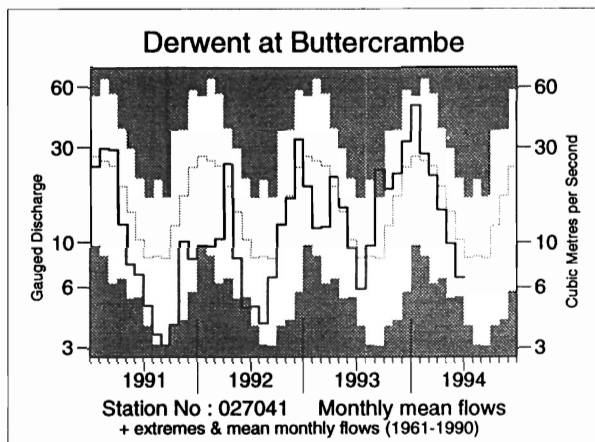
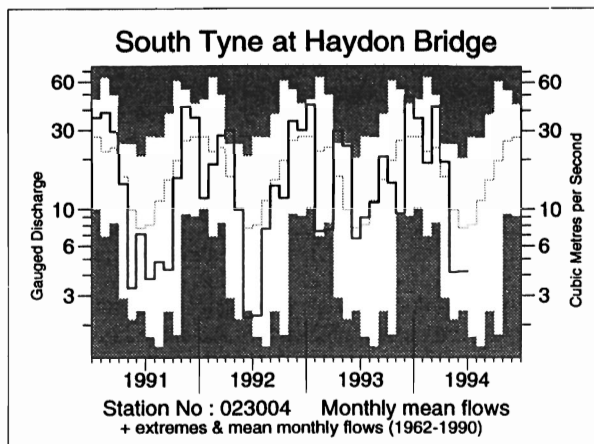
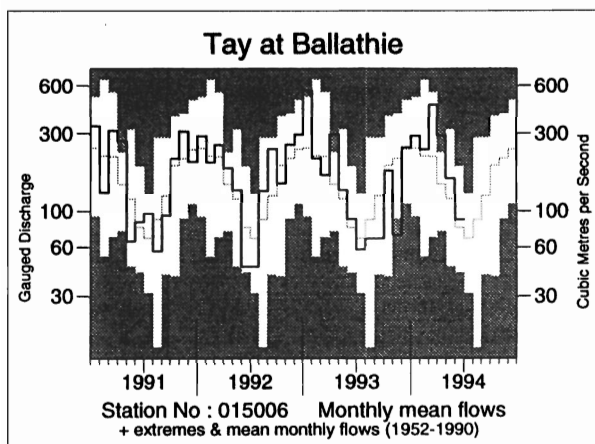
		Apr94-Jun94		Jan94-Jun94		Jul93-Jun94		Sep92-Jun94	
		Est Return Period, years		Est Return Period, years		Est Return Period, years		Est Return Period, years	
England and Wales	mm	170		468		1049		1850	
	% LTA	90	2-5	114	<u>2-5</u>	117	<u>5-15</u>	112	<u>5-10</u>
NRA REGIONS									
North West	mm	256		622		1262		2309	
	% LTA	113	<u>2-5</u>	120	<u>5-10</u>	105	<u>2-5</u>	104	<u>2-5</u>
Northumbria	mm	134		394		928		1704	
	% LTA	75	5-10	101	<u>2-5</u>	109	<u>2-5</u>	109	<u>5-10</u>
Severn-Trent	mm	137		376		871		1528	
	% LTA	79	2-5	105	<u>2-5</u>	116	<u>5-10</u>	110	<u>5-10</u>
Yorkshire	mm	137		391		928		1631	
	% LTA	76	5-10	102	<u>2-5</u>	113	<u>5-10</u>	108	<u>2-5</u>
Anglian	mm	126		295		759		1305	
	% LTA	87	2-5	106	<u>2-5</u>	127	<u>30-40</u>	120	<u>25-40</u>
Thames	mm	161		366		819		1479	
	% LTA	100	<2	112	<u>2-5</u>	119	<u>5-10</u>	116	<u>10-15</u>
Southern	mm	204		448		1021		1731	
	% LTA	127	<u>5-10</u>	125	<u>5-10</u>	131	<u>35-50</u>	119	<u>15-25</u>
Wessex	mm	176		480		1066		1823	
	% LTA	103	<u>2-5</u>	122	<u>5-10</u>	127	<u>20-30</u>	117	<u>10-20</u>
South West	mm	213		697		1522		2615	
	% LTA	101	<u>2-5</u>	127	<u>10-15</u>	130	<u>35-45</u>	119	<u>20-30</u>
Welsh	mm	244		734		1491		2663	
	% LTA	101	<u>2-5</u>	125	<u>5-10</u>	114	<u>5-10</u>	109	<u>5</u>
Scotland	mm	264		827		1518		2981	
	% LTA	107	<u>2-5</u>	132	<u>40-60</u>	106	<u>2-5</u>	112	<u>10-20</u>
RIVER PURIFICATION BOARDS									
Highland	mm	351		1030		1786		3608	
	% LTA	125	<u>5-10</u>	136	<u>60-90</u>	102	<u>2-5</u>	110	<u>5-10</u>
North-East	mm	139		481		1045		1916	
	% LTA	71	5-10	110	<u>2-5</u>	107	<u>2-5</u>	107	<u>2-5</u>
Tay	mm	200		743		1352		2660	
	% LTA	92	2-5	131	<u>15-25</u>	110	<u>2-5</u>	116	<u>15-25</u>
Forth	mm	160		612		1182		2323	
	% LTA	79	5	124	<u>10-15</u>	107	<u>2-5</u>	113	<u>10-20</u>
Tweed	mm	137		485		1042		1191	
	% LTA	71	5-10	111	<u>2-5</u>	107	<u>2-5</u>	112	<u>5-10</u>
Solway	mm	228		733		1418		2754	
	% LTA	93	2-5	118	<u>5-10</u>	100	<2	105	<u>2-5</u>
Clyde	mm	319		1003		1783		3471	
	% LTA	119	<u>2-5</u>	139	<u>70-100</u>	105	<u>2-5</u>	110	<u>5-10</u>

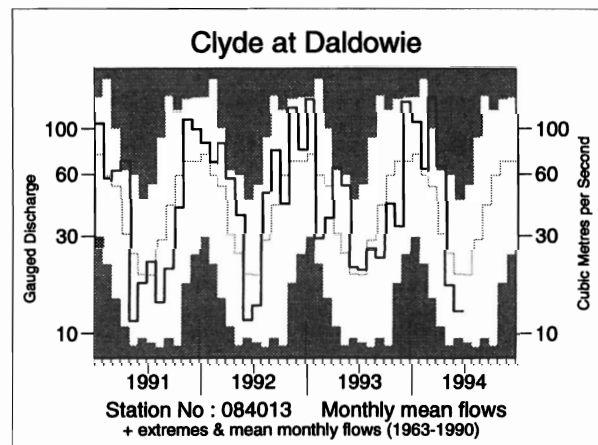
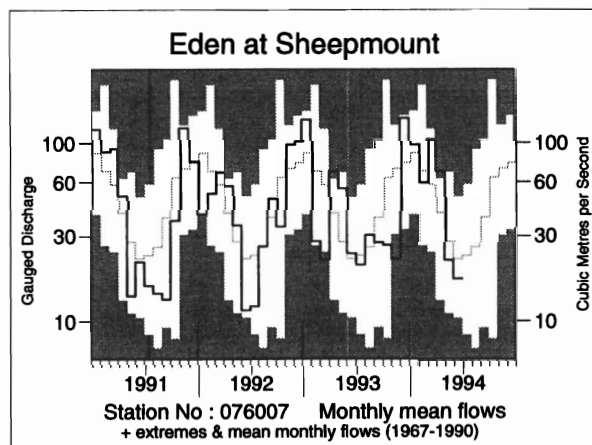
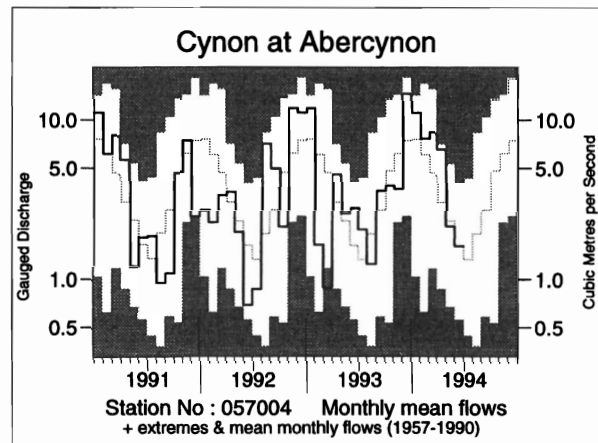
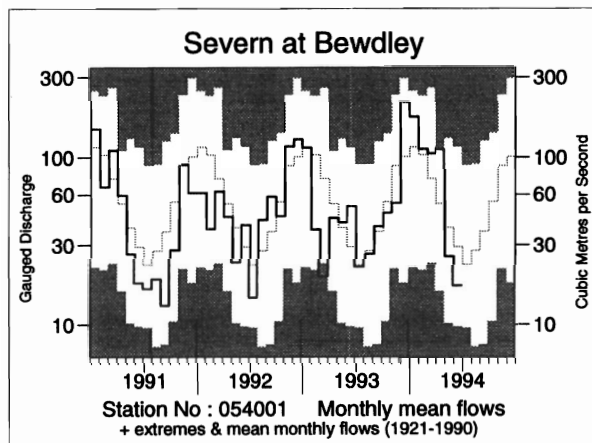
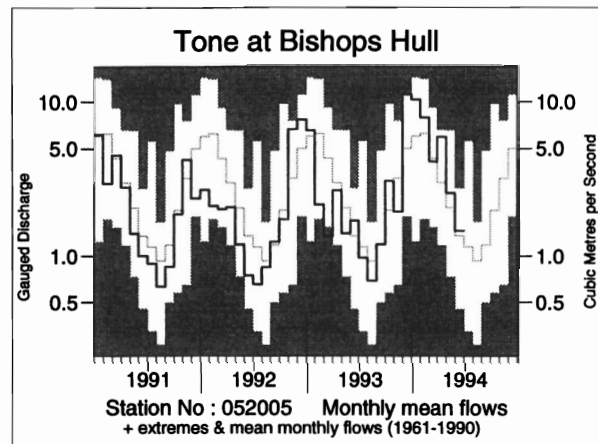
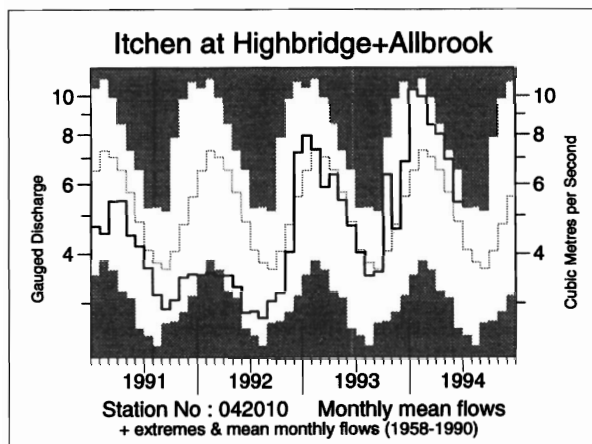
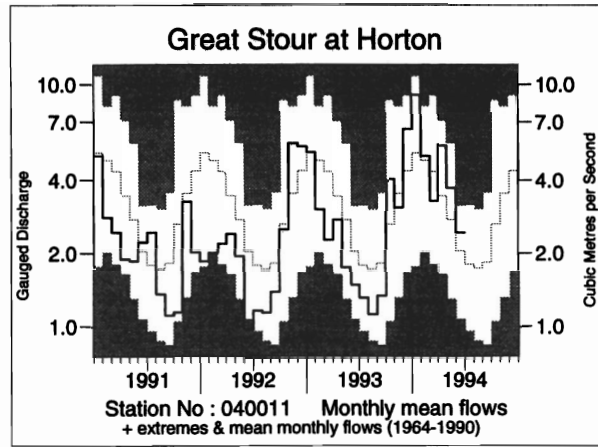
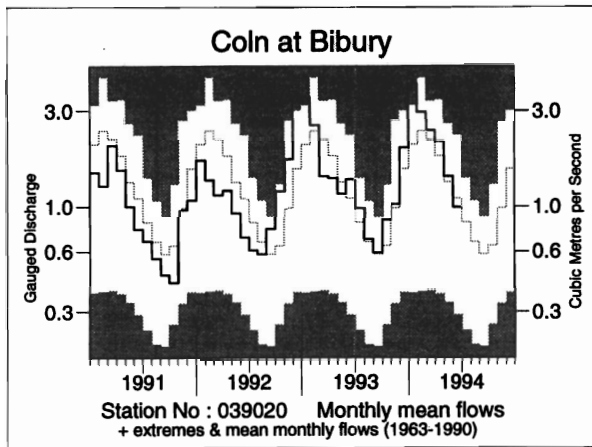
LTA refers to the period 1961-90.

Return period assessments are based on tables provided by the Meteorological Office\*. The tables reflect rainfall totals over the period 1911-70 only and the estimate assumes a sensibly stable climate. They assume a start in a specified month; return periods for a start in any month may be expected to be an order of magnitude less - for the longest durations the return period estimates converge. "Wet" return periods underlined.

\* Tabony, R.C., 1977, The Variability of long duration rainfall over Great Britain, Scientific Paper No. 37, Meteorological Office.

**FIGURE 1 MONTHLY RIVER FLOW HYDROGRAPHS**





**TABLE 3 RUNOFF AS MM. AND AS A PERCENTAGE OF THE PERIOD OF RECORD AVERAGE WITH SELECTED PERIODS RANKED IN THE RECORD**

River/ Station name	Feb	Mar	Apr	May	Jun		4/94 to 6/94		1/94 to 6/94		7/93 to 6/94		9/92 to 6/94	
	1994				1994									
	mm %LT	mm %LT	mm %LT	mm %LT	mm %LT	rank /yrs	mm %LT	rank /yrs	mm %LT	rank /yrs	mm %LT	rank /yrs	mm %LT	rank /yrs
Dee at Park	64 89	167 178	96 123	48 78	24 67	7 /22	168 95	10 /22	521 119	21 /22	906 114	18 /21	1699 111	16 /20
Tay at Ballathie	126 110	268 209	166 194	94 136	50 113	29 /42	310 152	41 /42	873 146	41 /42	1273 112	35 /41	2645 121	36 /40
Tweed at Boleside	78 100	165 205	81 151	33 79	19 71	13 /34	133 106	22 /34	527 135	33 /34	903 118	29 /33	1773 122	32 /32
Whiteadder Water at Hutton Castle	55 114	51 101	26 67	14 53	9 52	4 /25	48 59	7 /25	266 112	18 /25	490 124	20 /24	857 113	16 /24
South Tyne at Haydon Bridge	61 83	155 182	67 120	15 43	15 56	10 /32	96 81	12 /32	438 117	27 /32	843 110	23 /30	1579 108	21 /28
Wharfe at Flint Mill Weir	64 84	117 152	73 134	19 50	15 59	14 /39	106 91	19 /39	441 120	32 /39	815 113	29 /38	1432 104	22 /37
Derwent at Buttercrambe	43 109	37 90	24 76	17 71	11 67	6 /33	51 73	8 /33	213 109	21 /33	399 123	26 /32	661 106	18 /31
Trent at Colwick	47 111	45 113	45 141	21 84	13 69	9 /36	79 104	24 /36	248 120	29 /36	458 129	31 /35	777 115	25 /34
Lud at Louth	48 148	42 123	38 123	33 128	22 112	16 /26	92 122	15 /26	257 149	23 /26	399 160	24 /25	573 121	18 /25
Witham at Claypole Mill	34 133	29 112	23 114	15 99	8 87	20 /36	47 103	22 /35	166 135	29 /35	315 170	33 /35	515 145	33 /34
Little Ouse at Abbey Heath	26 121	26 120	32 180	18 126	10 101	17 /27	60 142	22 /27	154 142	23 /26	262 152	24 /26	400 125	22 /25
Colne at Lexden	23 128	13 71	22 167	10 112	5 87	17 /35	36 133	30 /35	105 124	28 /35	195 142	30 /34	341 131	29 /33
Lee at Feildes Weir (natr.)	25 130	19 98	30 203	18 138	14 152	97 /109	62 167	99 /108	148 151	96 /108	258 158	99 /107	436 141	98 /105
Thames at Kingston (natr.)	43 129	29 94	32 145	23 132	14 109	79 /112	69 131	89 /112	212 138	96 /112	337 137	97 /111	637 135	101 /110
Coln at Bibury	67 127	61 114	51 121	35 109	24 93	17 /31	111 110	20 /31	341 131	28 /31	494 125	28 /30	949 126	28 /29
Great Stour at Horton	36 108	26 78	43 166	29 140	18 120	24 /29	90 146	27 /28	223 133	25 /28	358 123	23 /27	599 108	15 /25
Itchen at Highbridge + Allbrook	67 140	63 123	58 126	52 124	39 114	28 /36	148 121	31 /36	356 131	35 /36	569 124	33 /35	970 113	29 /34
Piddle at Baggs Mill	79 138	73 132	59 140	43 139	28 122	26 /31	131 134	28 /31	398 150	30 /30	611 150	29 /29	1017 131	25 /27
Exe at Thorverton	137 132	125 148	133 238	34 90	21 89	19 /39	188 157	34 /38	659 151	38 /38	1152 139	37 /38	1911 119	34 /37
Taw at Umerleigh	124 146	112 165	112 256	25 85	12 75	17 /36	148 163	33 /36	577 160	36 /36	1043 149	34 /35	1737 128	33 /34
Tone at Bishops Hull	96 131	55 97	77 201	34 128	19 110	22 /34	130 156	32 /34	419 144	32 /33	672 143	32 /33	1107 121	29 /32
Severn at Bewdley	63 109	65 141	67 213	16 68	10 59	20 /74	94 128	62 /74	329 133	68 /73	575 128	62 /73	972 112	53 /72
Teme at Knightsford Bridge	65 125	33 68	47 142	11 53	6 42	3 /25	63 95	12 /25	253 110	16 /24	444 122	22 /24	770 109	14 /23
Cynon at Abercynon	175 128	213 178	164 214	56 95	40 101	20 /36	260 145	32 /36	929 147	36 /36	1666 131	34 /34	3026 124	31 /32
Dee at New Inn	176 106	319 175	195 183	41 62	65 113	17 /25	300 126	18 /25	1097 134	25 /25	1994 111	21 /25	3512 102	14 /24
Eden at Sheepmount	63 85	122 173	79 168	26 80	20 79	11 /24	125 116	16 /24	424 119	21 /24	732 106	13 /22	1441 110	15 /20
Clyde at Daldowie	81 106	199 259	91 203	24 70	18 67	10 /31	133 121	23 /31	564 150	30 /31	959 122	27 /30	1891 126	29 /29
Carron at New Kelso	84 40	451 158	300 213	56 56	183 250	16 /16	540 167	16 /16	1439 126	13 /16	2345 91	4 /15	4878 99	6 /14
Ewe at Poolewe	159 86	326 163	264 190	119 120	124 170	22 /24	507 160	24 /24	1251 128	20 /24	2089 97	10 /23	4567 111	18 /22

Notes: (i) Values based on gauged flow data unless flagged (natr.), when naturalised data have been used.  
(ii) Values are ranked so that lowest runoff is rank 1.  
(iii) %LT means percentage of long term average from the start of the record to 1992. For the long periods (at the right of this table), the end date for the long term is 1993.



**TABLE 4 START-MONTH RESERVOIR STORAGES UP TO JULY 1994**

Area	Reservoir (R)/ Group (G)		Capacity● (MI)	1994						1993
				Feb	Mar	Apr	May	June	July	July
North West	Northern Command Zone <sup>1</sup>	(G)	133375	97	93	100	97	85	73	77
	Vyrnwy	(R)	55146	100	100	100	94	87	79	89
Northumbria	Teesdale <sup>2</sup>	(G)	87936	97	96	100	99	83	72	80
	Kielder	(R)	199175*	98*	91*	96*	93*	92*	93*	91*
Severn-Trent	Clywedog	(R)	44922	100	98	99	96	93	93	93
	Derwent Valley <sup>3</sup>	(G)	39525	100	99	100	97	90	78	79
Yorkshire	Washburn <sup>4</sup>	(G)	22035	100	98	100	94	89	68	96
	Bradford supply <sup>5</sup>	(G)	41407	99	98	98	96	83	66	93
Anglian	Grafham	(R)	58707	93	98	91	96	96	94	81
	Rutland	(R)	130061	96	97	96	96	95	93	80
Thames	London <sup>6</sup>	(G)	207569	87	87	89	89	88	86	95
	Farmoor <sup>7</sup>	(G)	13843	98	99	98	98	98	95	96
Southern	Bowl	(R)	28170	100	92	100	100	100	98	91
	Ardingly	(R)	4685	100	100	100	100	100	100	99
Wessex	Clatworthy	(R)	5364	100	100	100	99	84	85	91
	Bristol W <sup>8</sup>	(G)	38666*	88*	99*	99*	98*	94*	85*	76*
South West	Colliford	(R)	28540	100	100	100	100	96	87	87
	Roadford	(R)	34500	98	97	100	97	92	87	82
	Wimbleball <sup>9</sup>	(R)	21320	100	100	100	99	99	92	89
	Stithians	(R)	5205	100	100	100	96	93	82	99
Welsh	Celyn + Brenig	(G)	131155	100	100	100	99	97	94	100
	Brianne	(R)	62140	100	100	100	100	96	90	98
	Big Five <sup>10</sup>	(G)	69762	99	99	100	97	93	89	89
	Elan Valley <sup>11</sup>	(G)	99106	100	100	100	99	95	91	97
Lothian	Edinburgh/Mid Lothian	(G)	97639	97	94	99	98	93	84	96
	West Lothian	(G)	5613	99	96	99	100	91	77	99
	East Lothian	(G)	10206	97	99	98	99	95	86	99

● Live or usable capacity (unless indicated otherwise)

\* Gross storage/percentage of gross storage

1. Includes Haweswater, Thirlmere, Stocks and Barnacre.
2. Cow Green, Selset, Grassholme, Balderhead, Blackton and Hury.
3. Howden, Derwent and Ladybower.
4. Swinsty, Fewston, Thruscross and Eccup.
5. The Nidd/Barden group (Scar House, Angram, Upper Barden, Lower Barden and Chelker) plus Grimwith.
6. Lower Thames (includes Queen Mother, Wraysbury, Queen Mary, King George VI and Queen Elizabeth II) and Lee Valley (includes King George and William Girling) groups - pumped storages.
7. Farmoor 1 and 2 - pumped storages.
8. Blagdon, Chew Valley and others.

9. Shared between South West (river regulation for abstraction) and Wessex (direct supply).

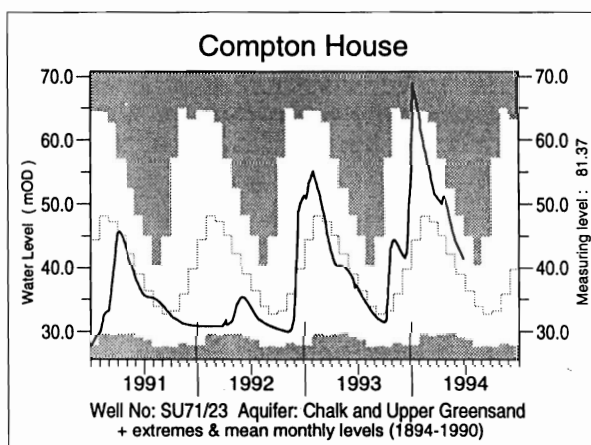
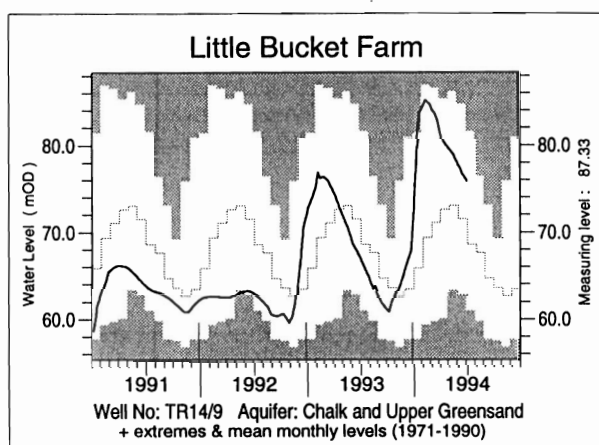
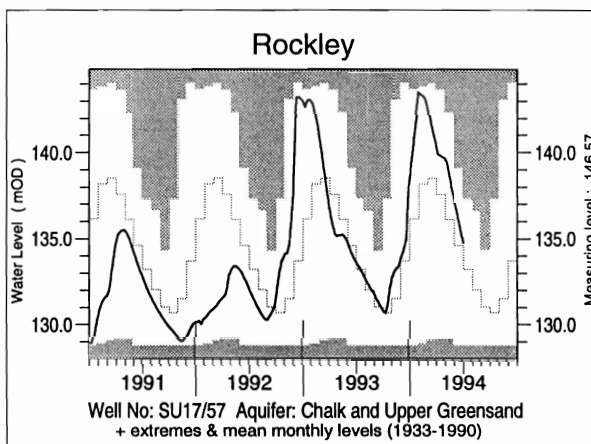
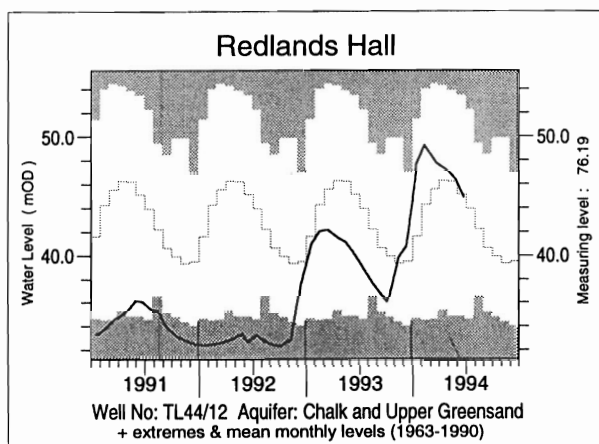
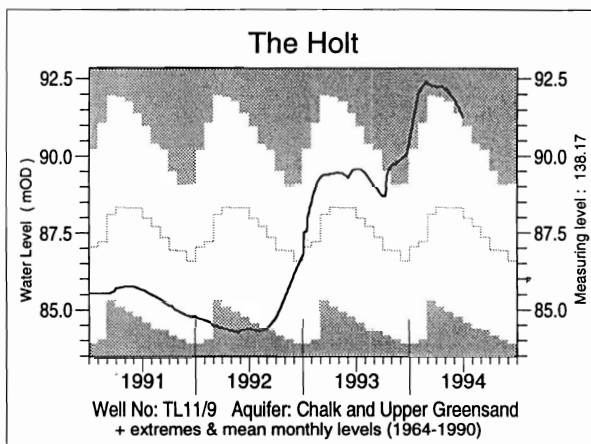
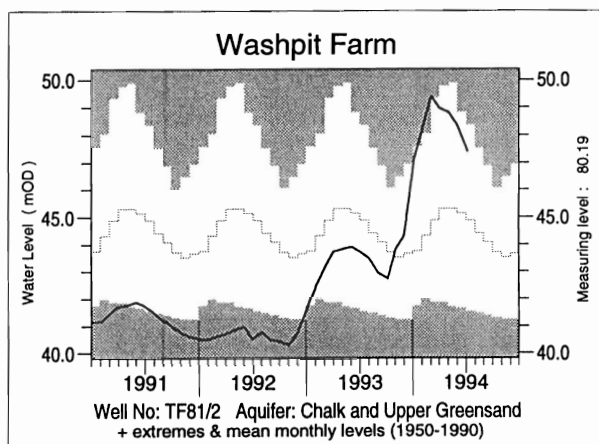
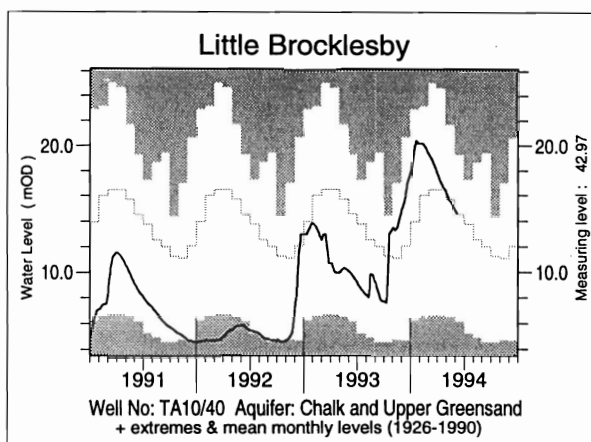
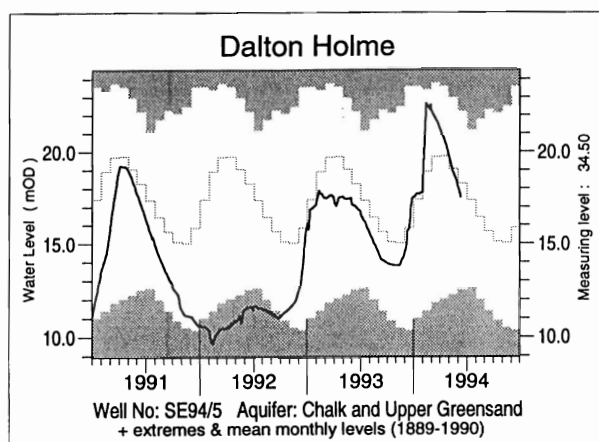
10. Usk, Talybont, Llandegfedd (pumped storage), Taf Fechan, Taf Fawr.

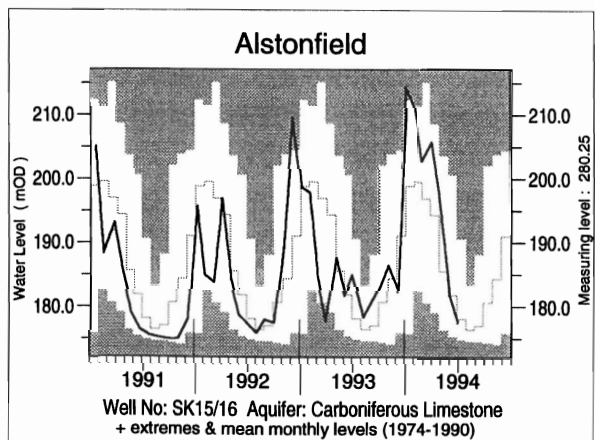
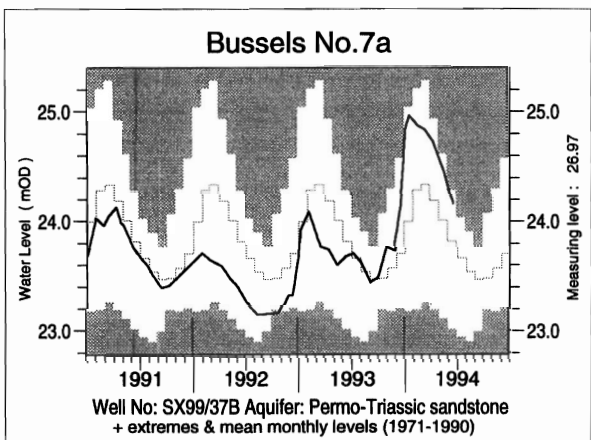
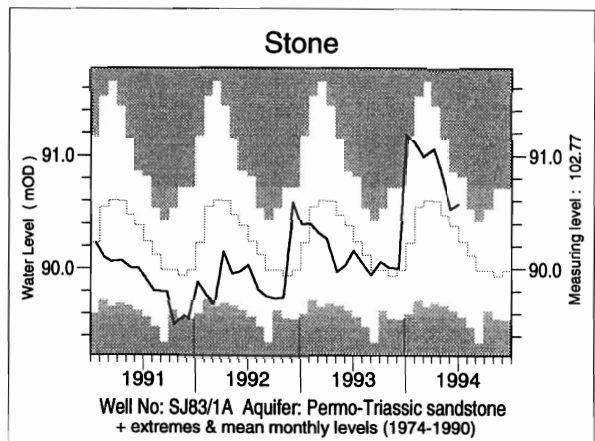
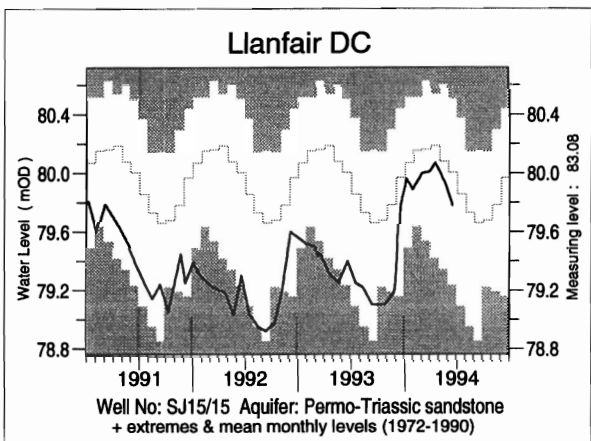
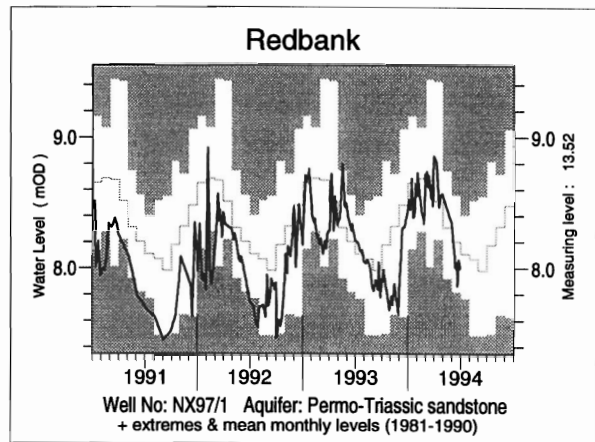
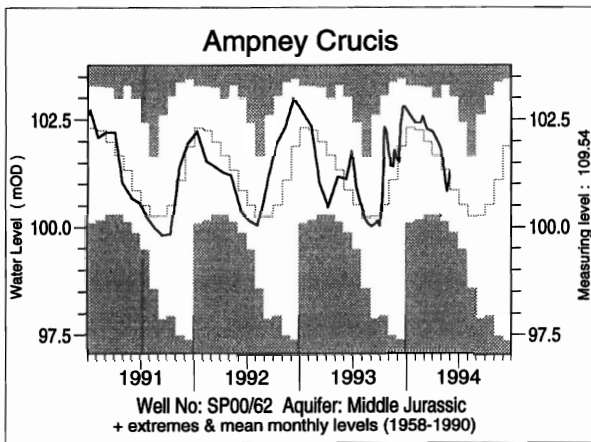
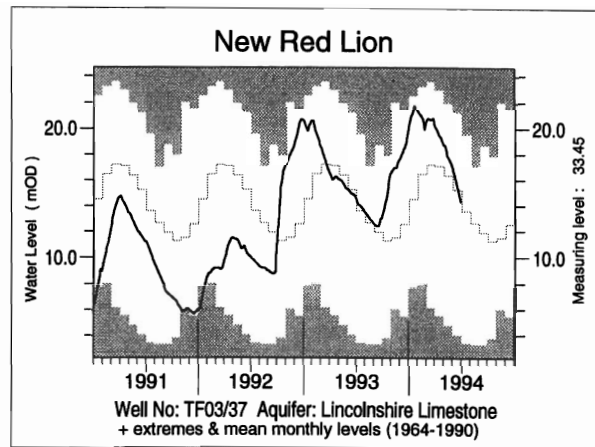
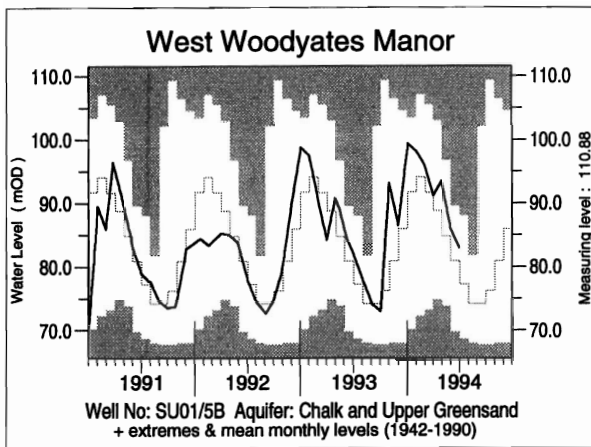
11. Claerwen, Caban Coch, Pen y Garreg and Craig Goch.

Note: Variations in storage depend on the balance between inputs (from catchment rainfall and any pumping) and outputs (to supply, compensation flow, HEP, amenity). There will be additional losses due to evaporation, especially in the summer months. Operational strategies for making the most efficient use of water stocks will further affect reservoir storages. Table 4 provides a link between the hydrological conditions described elsewhere in the report and the water resources situation.



**FIGURE 2 GROUNDWATER LEVEL HYDROGRAPHS**





**TABLE 5 A COMPARISON OF JUNE GROUNDWATER LEVELS: 1993 AND 1994**

Site	Aquifer	Records commence	Minimum June	Average June	Maximum June	June 1993		June/July 1994	
			< 1994	< 1994	< 1994	day	level	day	level
Dalton Holme	C & UGS	1889	11.40	18.29	22.23	29/06	16.79	24/06	16.63
Wetwang	C & UGS	1971	18.97	21.83	27.95	24/06	21.33	24/06	20.50
Little Brocklesby	C & UGS	1926	5.57	13.76	19.28	30/06	9.24	09/06	14.60
Washpit Farm	C & UGS	1950	40.96	45.04	48.84	03/06	43.91	06/07	47.40
The Holt	C & UGS	1964	84.33	87.98	91.41	27/06	89.57	01/07	91.29
Therfield Rectory	C & UGS	1883	dry <71.6	81.86	98.77	27/06	79.97	30/06	85.97
Redlands Hall	C & UGS	1964	32.64	44.18	53.46	11/06	40.16	24/06	44.84
Rockley	C & UGS	1933	dry <128.94	134.54	139.11	27/06	133.72	20/06	135.59
Little Bucket Farm	C & UGS	1971	62.83	70.92	84.75	18/06	67.70	30/06	75.88
Compton House	C & UGS	1984	29.06	38.22	48.28	23/06	37.38	29/06	41.44
Chilgrove House	C & UGS	1836	36.91	46.23	58.52	30/06	44.96	29/06	48.77
West Dean No.3	C & UGS	1940	1.11	1.64	2.38	25/06	1.69	24/06	2.10
Lime Kiln Way	C & UGS	1969	123.97	125.29	126.03	15/06	124.34	17/06	125.76
Ashton Farm	C & UGS	1974	64.78	67.81	69.79	28/06	66.67	30/06	68.09
West Woodyates Manor	C & UGS	1942	69.78	81.03	89.58	28/06	82.23	30/06	82.92
New Red Lion	LLst	1964	4.11	14.86	21.28	25/06	14.78	27/06	14.34
Ampney Crucis	Mid Jur	1958	99.87	100.86	103.03	27/06	101.77	01/07	100.54
Dunmurry (NI)	PTS	1985	27.23	28.01	28.66	30/06	27.23	27/06	27.41
Yew Tree Farm	PTS	1973	13.01	13.51	13.87	29/06	13.53	30/06	13.48
Llanfair D.C	PTS	1972	79.23	79.86	80.51	22/06	79.40	15/06	79.78
Morris Dancers	PTS	1969	31.89	32.48	33.61	08/06	31.89	11/07	32.35
Weeford Flats	PTS	1966	dry <88.61	90.09	91.58	02/06	89.06	05/07	90.04
Stone	PTS	1974	89.63	90.33	90.87	04/06	90.03	05/07	90.58
Skirwith	PTS	1978	130.06	130.53	130.93	28/06	130.34	30/06	130.14
Redbank	PTS	1981	7.79	8.16	8.56	30/06	8.21	30/06	8.00
Bussels No.7A	PTS	1972	23.01	23.81	24.28	10/06	23.68	22/06	24.16
Rushyford NE	MgLst	1967	65.22	72.58	76.60	30/06	75.66	21/06	76.60
Peggy Ellerton	MgLst	1968	31.38	34.30	36.78	07/06	31.79	22/06	33.55
Alstonfield	CLst	1974	175.45	181.22	200.66	04/06	181.67	05/07	177.61

groundwater levels are in metres above Ordnance Datum

C & UGS      Chalk and Upper Greensand  
LLst          Lincolnshire Limestone  
PTS          Permo-Triassic sandstones

Mid Jur      Middle Jurassic limestones  
MgLst          Magnesian Limestone  
CLst          Carboniferous Limestone

Note: Table 5 has been redesigned to include both monthly minimum and monthly maximum levels.

FIGURE 3 LOCATION MAP OF GAUGING STATIONS AND GROUNDWATER INDEX WELLS

